

Attorney's Docket No.: 08215-301003 / P06-023937

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Charles P. McShane et al.      Art Unit : 1750  
Serial No. : 10/619,893      Examiner : Unknown  
Filed : July 15, 2003  
Title : VEGETABLE OIL BASED DIELECTRIC FLUID AND METHODS OF USING  
SAME

Group 1750 Director  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

DECLARATION OF APPLICANTS' ATTORNEY IN SUPPORT OF APPLICANTS'  
PETITION TO MAKE SPECIAL BECAUSE OF ENVIRONMENTAL QUALITY

The undersigned, H. SANDERS GWIN, declares:

1. Because of the disadvantages and shortcomings of PCB-based fluids and because of the increasing sensitivity to the potential adverse impact of mineral oils and available alternatives, there have been and continue to be numerous efforts undertaken to develop relatively inexpensive, environmentally safe and nonflammable dielectric fluids for use in electrical equipment (Page 2, lines 21-25).
2. The invention claimed in the above-captioned application is a dielectric fluid including a vegetable oil or a vegetable oil blend (Page 4, line 22). This dielectric fluid may be used in any application in which conventional synthetic dielectric fluids are employed, including electrical equipment such as transformers, reactors, switchgear, regulators, tap changer components, high voltage bushings, oil-filled cables and the like (Page 15, lines 18-22 and page 16, lines 9-11).
3. The claimed vegetable oil based dielectric fluid meets the operational requirements for use in electrical equipment (Page 7, lines 9-19).

## CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

Date of Transmission September 29, 2003  
Signature Judith A. Witzel  
Typed or Printed Name of Person Signing Certificate Judith A. Witzel

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Page : 2 of 2


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4. Compared to conventional synthetic dielectric fluids, the claimed dielectric fluid: (1) poses minimal environmental hazards; (2) degrades quickly and easily so that spills do not contaminate the soil or the water table for any significant period of time; and (3) does not interfere in any significant way with natural biodegradation processes. (Page 4, lines 3-8).

5. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true. These statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or document or any registration resulting therefrom.

Respectfully submitted,

Date: 29 September 2003

  
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